

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application

Inventor: Richard Chao

Reissue Application No.: Unknown

Filed: Herewith

Patent No.: 5,568,207

Title: AUXILIARY LENSES FOR
EYEGLASSES



Art Unit: Unknown

Examiner: Unknown

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REQUEST FOR ABSTRACT OF TITLE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Please prepare a certified Abstract of Title, in respect of the above-identified patent for placing in the official file of the Reissue Application which is filed herewith.

Title in the name of Contour Optik, Inc. was recorded on Reel 8334, Frames 0766-7.

For the fee required by 37 CFR 1.19(b)(4) please find enclosed a check in the amount of \$25.

Respectfully submitted,

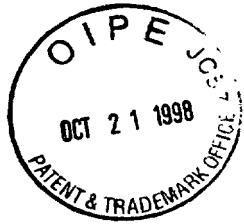
FLIESLER, DUBB, MEYER & LOVEJOY LLP

Date: October 21, 1998

By: Peter Tong

Peter P. Tong
Reg. No. 35,757

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ABSTRACT

An eyeglass device includes a primary and an auxiliary spectacle frames for supporting lenses. The primary spectacle frame includes two legs pivotally coupled to two side extensions and includes two magnetic members secured in the rear and side portions. The auxiliary spectacle frame includes two legs engaged on the primary spectacle frame and each having a magnetic member for engaging with the magnetic members of the primary spectacle frame so as to secure the spectacle frames together and so as to prevent the auxiliary spectacle frame from moving downward relative to the primary spectacle frame.

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AUXILIARY LENSES FOR EYEGLASSES

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to auxiliary lenses, and more particularly to auxiliary lenses for eyeglasses.

2 Description of the Prior Art

A typical spectacle frame having an attachable one-piece slide-on rim is disclosed in U.S. Pat. No. 4,070,103 to Meeker. In Meeker, a spectacle frame includes a magnetic material secured to the peripheral portion thereof for facilitating attachment of the auxiliary lens rim cover to the spectacle frame. The lens rim cover also includes a magnetic strip for engaging with the magnetic material of the spectacle frame.

Another typical eyeglasses are disclosed in U.S. Pat. No 5,416,537 to Sadler and comprise first magnetic members secured to the temporal portions of the frames and second magnetic members secured to the corresponding temporal portions of the auxiliary lenses

In both of the eyeglasses, the auxiliary lenses are simply attached to the frames by magnetic materials and have no supporting members for preventing the auxiliary lenses from moving downward relative to the frames such that the auxiliary lenses may easily move downward relative to the frames and may be easily disengaged from the frames when the users conduct jogging or jumping exercises. In addition, the magnetic materials are embedded in the frames of the primary lenses and of the auxiliary lenses such that the frames should be excavated with four or more cavities for engaging with the magnetic members and such that the strength of the frames is greatly decreased.

The present invention has arisen to mitigate and/or obviate the afore-described disadvantages of the conventional spectacle frames

SUMMARY OF THE INVENTION

The primary objective of the present invention is to provide auxiliary lenses which may be stably secured and supported on the frames

In accordance with one aspect of the invention, there is provided an eyeglass device comprising a primary spectacle frame for supporting primary lenses therein, the primary spectacle frame including two side portions each having an extension extended therefrom for pivotally coupling a leg means thereto, the primary spectacle frame including two rear and side portions each having a projection secured thereto, the primary spectacle frame including an upper portion, a pair of first magnetic members secured in the projections respectively, an auxiliary spectacle frame for supporting auxiliary lenses therein, the auxiliary spectacle frame including two side portions each having an arm extended therefrom for extending over and for engaging with the upper portion of the primary spectacle frame, and a pair of second magnetic members secured to the arms respectively for engaging with the first magnetic members of the primary spectacle frame so as to secure the auxiliary spectacle frame to the primary spectacle frame. The arms are engaged with and supported on the upper portion of the primary spectacle frame so as to allow the auxiliary spectacle frame to be stably supported on the primary spectacle frame and so as to prevent the auxiliary spectacle frame from moving downward relative to and so as to prevent the

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auxiliary spectacle frame from being disengaged from the primary spectacle frame.

The projections and the first magnetic members are arranged lower than the upper portion of the primary spectacle frame, the second magnetic members are extended downward toward the projections for hooking on the primary spectacle frame so as to further secure the auxiliary spectacle frame to the primary spectacle frame. The auxiliary spectacle frame may be prevented from disengaging from the primary spectacle frame.

Further objectives and advantages of the present invention will become apparent from a careful reading of a detailed description provided hereinbelow, with appropriate reference to accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIGS. 1 and 2 are front views of a spectacle frame and of auxiliary lenses in accordance with the present invention respectively;

FIGS 3 and 4 are top views of the spectacle frame and of the auxiliary lenses respectively,

FIG. 5 is a front view of the spectacle frame and the auxiliary lenses combination;

FIG. 6 is a top view of the spectacle frame and the auxiliary lenses combination; and

FIG. 7 is a cross sectional view taken along lines 7—7 of FIG. 6.

FIG. 8 illustrates another embodiment of a cross sectional view taken along lines 7-7 of FIG. 6.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings, and initially to FIGS. 1 to 4, an eyeglass device in accordance with the present invention 35 comprises a primary spectacle frame 10 for supporting primary lenses therein. The primary spectacle frame 10 includes two side portions each having an extension 11 40 extended rearward therefrom for pivotally coupling leg 12 thereto. The primary spectacle frame 10 includes two projections 13 secured to the rear and side portions thereof for supporting magnetic members 14 therein. An auxiliary spectacle frame 20 is provided for supporting the auxiliary lenses 45 therein and includes two side portions each having an arm 21 extended rearward therefrom for extending over and for engaging with the upper portion of the primary spectacle frame 10 (FIGS. 5 and 6). The auxiliary spectacle frame 20 also includes two magnetic members 22 secured to the arms 50 21 thereof for engaging with the magnetic members 14 of the primary spectacle frame 10 such that the auxiliary spectacle frame 20 may be stably supported on the primary spectacle frame 10, best shown in FIGS. 5 and 6.

It is to be noted that the arms 21 are engaged with and are supported on the upper portion of the primary spectacle frame 10 such that the auxiliary spectacle frame 20 may be stably supported and secured to the primary spectacle frame 10. The auxiliary spectacle frame 20 will not move downward relative to the primary spectacle frame and will not be easily disengaged from the primary spectacle frame when the users conduct jogging or jumping exercises.

It is further to be noted that the projections 13 and the magnetic members 14 are secured to the primary spectacle frame 10 and the magnetic members 22 are secured in the arms 21. The magnetic members 14, 22 are not embedded in the frames 10, 20 such that the frames 10, 20 are not required to be formed with cavities therein and such that the strength of the frames 10, 20 will not be decreased.

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Referring next to FIGS 7 and 8, it is preferable that the projec-

tions 13 and the magnetic members 14 are located slightly lower than the upper portion of the primary spectacle frame 10, and the end portions of the arms 21 and/or the magnetic members 22 are slightly extended downward toward the 5 projections 13 such that the arms 21 and the magnetic members 22 may hook on the primary spectacle frame 10 and such that the auxiliary spectacle frame 20 may further be stably supported and secured to the primary spectacle frame 10. 10

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In one embodiment, as shown in FIG. 7, magnetic members 14 and 22 are not in contact with each other; magnetic members 14 and 22 are engaged with, but not supported on, each other. Instead, the arm 21 securing the magnetic member 22 is supported on an upper side portion of the primary spectacle frame 10. As shown in FIG. 7, the upper side portion can be an upper part of the side portion securing the projection 13.

Accordingly, the eyeglass device in accordance with the present invention includes an auxiliary spectacle frame that may be stably secured to the primary spectacle frame and will not move downward relative to the primary spectacle frame and will not be easily disengaged from the primary spectacle frame when the users conduct jogging or jumping exercises. In addition, the magnetic members are not embedded in the frames such that the strength of the frames will not be decreased. 15

Although this invention has been described with a certain degree of particularity, it is to be understood that the present disclosure has been made by way of example only and that numerous changes in the detailed construction and the combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention 20 25 as hereinafter claimed.

I claim:

1 An eyeglass device comprising:
a primary spectacle frame for supporting primary lenses 30
therein, said primary spectacle frame including two
side portions each having an extension extended therefrom
for pivotally coupling a leg means thereto, said
primary spectacle frame including two rear and side

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portions each having a projection secured thereto, said primary spectacle frame including an upper side portion,

a pair of first magnetic members secured in said projections respectively.

an auxiliary spectacle frame for supporting auxiliary lenses therein, said auxiliary spectacle frame including two side portions each having an arm extended there-

from, with at least one arm for extending over [and for engaging with] said

upper side portion of said primary spectacle frame, and
a pair of second magnetic members secured to said arms
respectively for engaging with said first magnetic mem-
bers of said primary spectacle frame so as to secure said
auxiliary spectacle frame to said primary spectacle
frame,

at least one of said arms being [engaged with and] supported on said upper

side portion of said primary spectacle frame so as to allow said auxiliary spectacle frame to be stably supported on said primary spectacle frame and so as to prevent said auxiliary spectacle frame from moving downward relative to said primary spectacle frame and so as to prevent said auxiliary spectacle frame from being disengaged from said primary spectacle frame.

being disengaged from said primary spectacle frame;
2. An eyeglass device according to claim 1, wherein said projections and said first magnetic members are arranged lower than said upper side portion of said primary spectacle frame, said second magnetic members are extended downward toward said projections for hooking on said primary spectacle frame so as to further secure said auxiliary spectacle frame to said primary spectacle frame.

3. An eyeglass device as recited in claim 1 wherein the first and the second magnetic members are magnets.

4. An eyeglass device as recited in claim 1 wherein:
the primary spectacle frame includes two upper side portions, each upper side portion for supporting one of said arms.

5. An eyeglass device comprising:
a primary spectacle frame for supporting primary lenses therein;
the primary spectacle frame including two side portions;
each side portion having an extension extended therefrom for pivotally coupling a leg thereto;
the primary spectacle frame including a projection extending from each said side portion;
each projection securing a first magnetic member; and
the primary spectacle frame including an upper portion; and

an auxiliary spectacle frame for supporting auxiliary lenses therein;
the auxiliary spectacle frame including two auxiliary side portions;
each said auxiliary side portion having an arm extended therefrom;
with at least one arm being configured to extend over the upper portion of the primary spectacle frame;
each arm securing a second magnetic member;
each second magnetic member configured to engage with one of the first magnetic members of the primary spectacle frame; and
the upper portion supports at least one arm of the auxiliary frame.

6. An eyeglass device as recited in Claim 5 wherein the upper portion is an upper part of one of the side portions. PSF

7. An eyeglass device as recited in Claim 5 wherein the first and the second magnetic members are magnets.

8. An eyeglass device as recited in Claim 7 wherein the first magnetic members are not in contact with the second magnetic members.

9. An eyeglass device as recited in Claim 8 wherein the upper portion is an upper part of one of the side portions. PSF

10. An eyeglass device comprising:
a primary spectacle frame for supporting primary lenses therein;
the primary spectacle frame including two side portions;
each side portion having an extension extended therefrom for pivotally coupling a leg thereto;
the primary spectacle frame including a projection extending from each said side portion;
each projection securing a first magnetic member; and
the primary spectacle frame including an upper means; and

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an auxiliary spectacle frame for supporting auxiliary lenses therein; the auxiliary spectacle frame including two auxiliary side portions; each said auxiliary side portion having an arm extended therefrom; with at least one arm being configured to extend over the upper means of the primary spectacle frame; each arm securing a second magnetic member; each second magnetic member configured to engage with one of the first magnetic members of the primary spectacle frame; and the upper means supports at least one arm of the auxiliary frame.

11. An eyeglass device as recited in claim 10 wherein:
the first and the second magnetic members are magnets; and
the upper means is an upper part of one of the side portions. PSP

12. An eyeglass device comprising:

a primary frame for supporting primary lenses therein;
the primary spectacle frame including two side portions;
each side portion having an extension extended therefrom for pivotally
coupling a leg thereto; and
the primary spectacle frame including two first magnets, each secured
to one of the side portions of the primary frame; and

an auxiliary frame for supporting auxiliary lenses therein, and for disposing in front of the primary frame;

the auxiliary spectacle frame including two auxiliary side portions; and the auxiliary frame including two second magnets, each secured to one of the auxiliary side portions, for engaging on a horizontal position with one of the first magnets so as to secure the auxiliary frame to the primary frame.

13. An eyeglass device as recited in Claim 12 wherein:

the primary spectacle frame includes a projection extending from each of its side portion:

each projection secures one of the first magnets;
the primary spectacle frame includes an upper portion;
each said auxiliary side portion has an arm extended therefrom;
at least one arm is configured to extend over the upper portion of the
primary spectacle frame;
each arm secures one of the second magnets; and
the upper portion is an upper part of one of the side portions. ✓ PF

14. A primary eyeglass device adapted to stably support an auxiliary spectacle frame, which includes two auxiliary side portions, each auxiliary side portion having an arm extended therefrom, and each arm securing a first magnetic member

the primary eyeglass device comprising:

a primary spectacle frame for supporting primary lenses therein;